

Title (en)
Unmanned aerial vehicle

Title (de)
Unbemanntes Luftfahrzeug

Title (fr)
Véhicule aérien sans pilote

Publication
EP 2902319 B1 20190626 (EN)

Application
EP 14382029 A 20140130

Priority
EP 14382029 A 20140130

Abstract (en)
[origin: EP2902319A1] An unmanned aerial vehicle adapted for hover and short/vertical take-off and landing (S/VTOL) is disclosed. The vehicle comprises: a body having an aspect-ratio less than two and having therein a payload volume, at least one propeller located forward of the body, at least one rudder. The body may have an inverse Zimmerman planform which provides lift as air flows across the body in horizontal flight/fixed wing mode, and further adapted such that during hover and/or short/vertical take-off and landing (S/VTOL) the vehicle operates as a rotorcraft with the body oriented with the at least one propeller substantially above the body. The vehicle is suited to a method of inspection, such as power line inspection where large distances can be analysed efficiently by flying in fixed wing mode, but by transitioning to hover mode allows detailed inspection of selected areas.

IPC 8 full level
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B64C 39/10 (2013.01 - EP US); **B64U 20/87** (2023.01 - EP KR); **B64U 30/10** (2023.01 - EP KR); **B64U 30/293** (2023.01 - EP KR);
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CN110418957A; EP3614155A1; WO2019112404A1; US11017228B2; WO2020176701A1; US10972649B2; US11595561B2; US11902655B2;
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